



City of Everglades City Water System Improvements Project



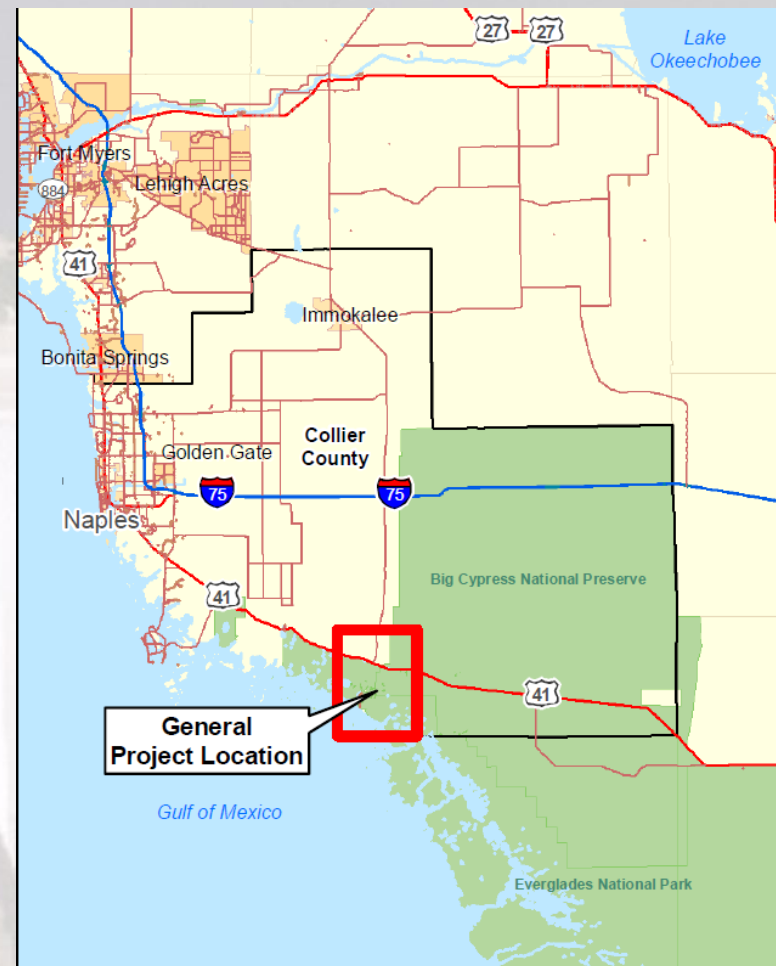
TETRA TECH

February 25, 2011



Background

- 20 year water management master plan developed in 2010
- Drinking water system improvements project underway





Existing Service Area

- **Drinking water service area**
 - Everglades City
 - Portions of Copeland
 - Chokoloskee and Plantation Island





Existing Drinking Water Facilities

- Three surficial aquifer wells
- Aeration and chloramination
- Cartridge filtration
- Storage facilities in Copeland and Everglades City
- Corrosion control
- Water quality does not comply with State and Federal standards





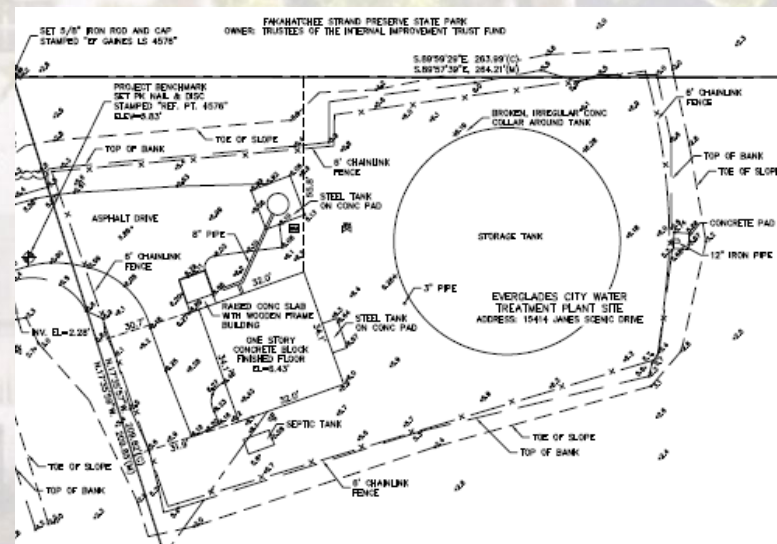
Recommended Drinking Water System Capital Improvements

- **Construct exploratory wells**
- **Perform pilot testing**
- **Design and construct new water treatment facilities**
- **Interconnect Lee Cypress water system**
- **Renew consumptive use permit**
- **Perform maintenance improvements**



Current Scope of Work

- Survey
- Data collection
- Exploratory well construction documents
- Permitting
- Revenue sufficiency
- Grant applications





Drinking Water Program Next Steps

- **Construct exploratory wells**
- **Perform water quality and quantity testing**
- **Identify treatment requirements**
- **Obtain additional grant funding**
- **Design and pilot test**
- **Construct new facilities**



Overall Water Management Capital Improvements Program

Project	CIP Years 1-5	CIP Years 5-10	CIP Years 10-15	CIP Years 15-20
Water Supply Exploratory Well	\$300,000			
Water Treatment Improvements	\$1,800,000			
Water Plant Maintenance Improvements	\$350,000	\$350,000	\$350,000	\$350,000
Booster Station Maintenance Improvements	\$150,000	\$150,000	\$150,000	\$150,000
Consumptive Use Permitting	\$100,000	\$50,000	\$50,000	\$75,000
Lee Cypress Water System Interconnect	\$250,000			
Wastewater Treatment Plant Improvements	\$5,700,000		\$50,000	
Wastewater Plant Maintenance Improvements	\$500,000	\$500,000	\$500,000	\$500,000
Collection and Transmission Maintenance Imp.	\$250,000	\$250,000	\$250,000	\$250,000
Plantation Island Master Lift Station		\$150,000		
Plantation Island Interconnect		\$500,000		
Sewer System Connection Program		\$1,000,000	\$350,000	\$350,000
Storm Water Master Planning Effort	\$100,000	TBD	TBD	TBD
Total 5 Year CIP (Rounded)	\$9,500,000	\$3,000,000	\$1,700,000	\$1,700,000





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